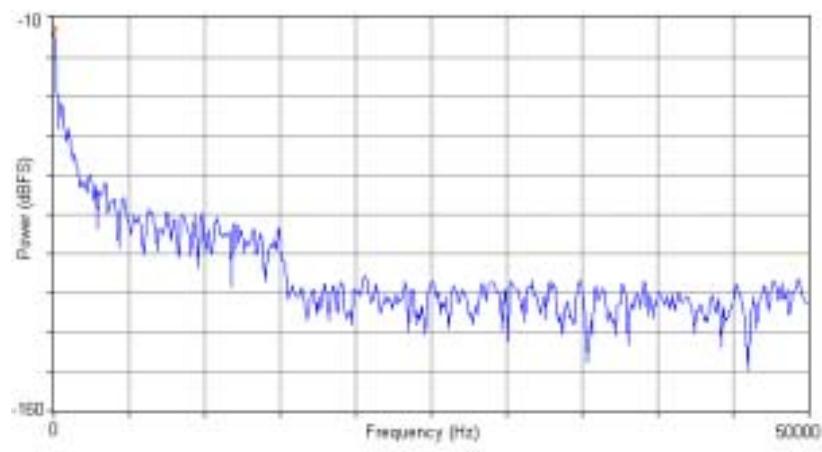
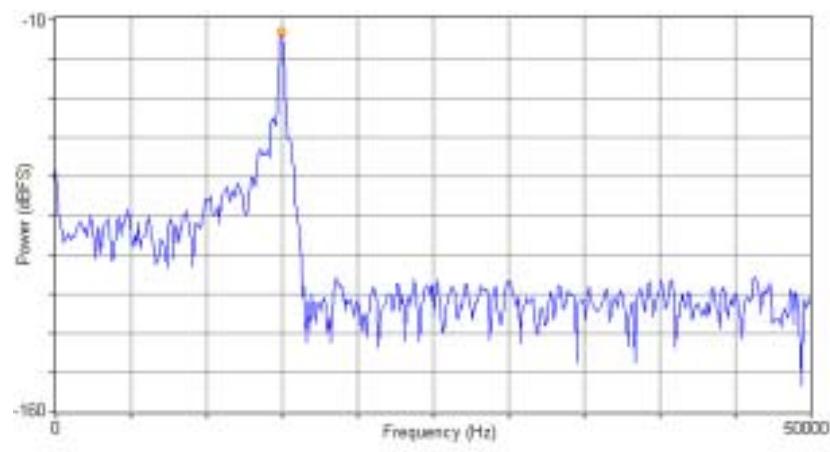


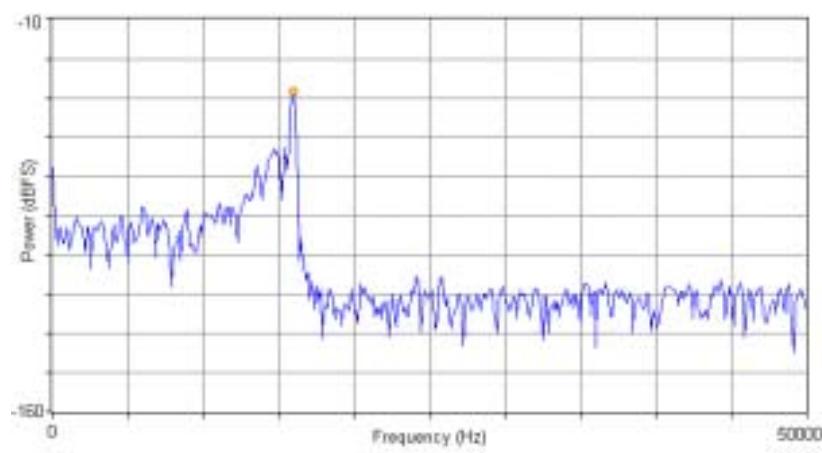
Figure 15. Test setup for observing the receiver baseband and demodulator outputs.



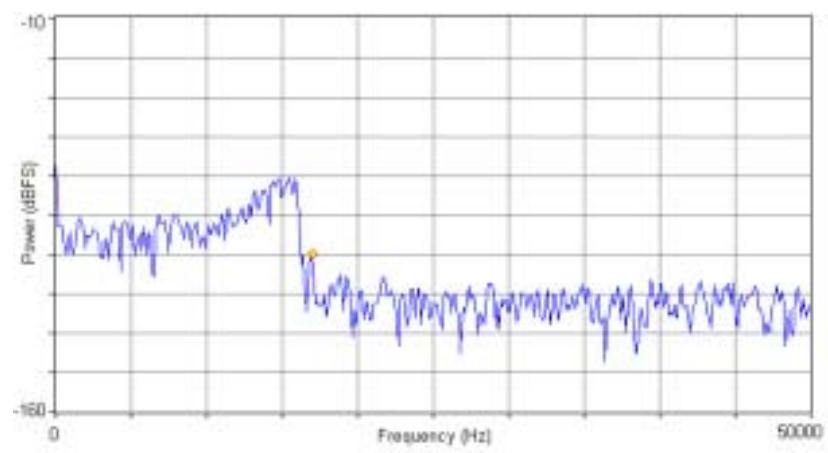
(a)



(b)



(c)



(d)

Figure 16. Example baseband output spectrum plots for determining the channel filter response at (a) 0 kHz, (b) 15 kHz, (c) 16 kHz, and (d) 17 kHz.

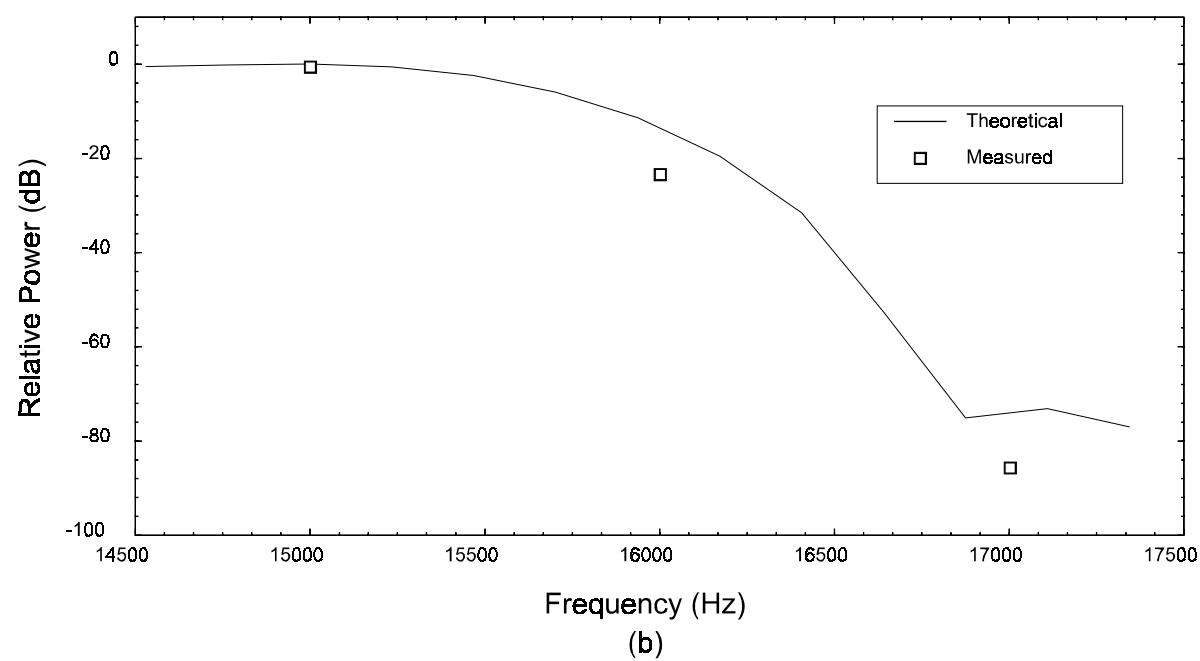
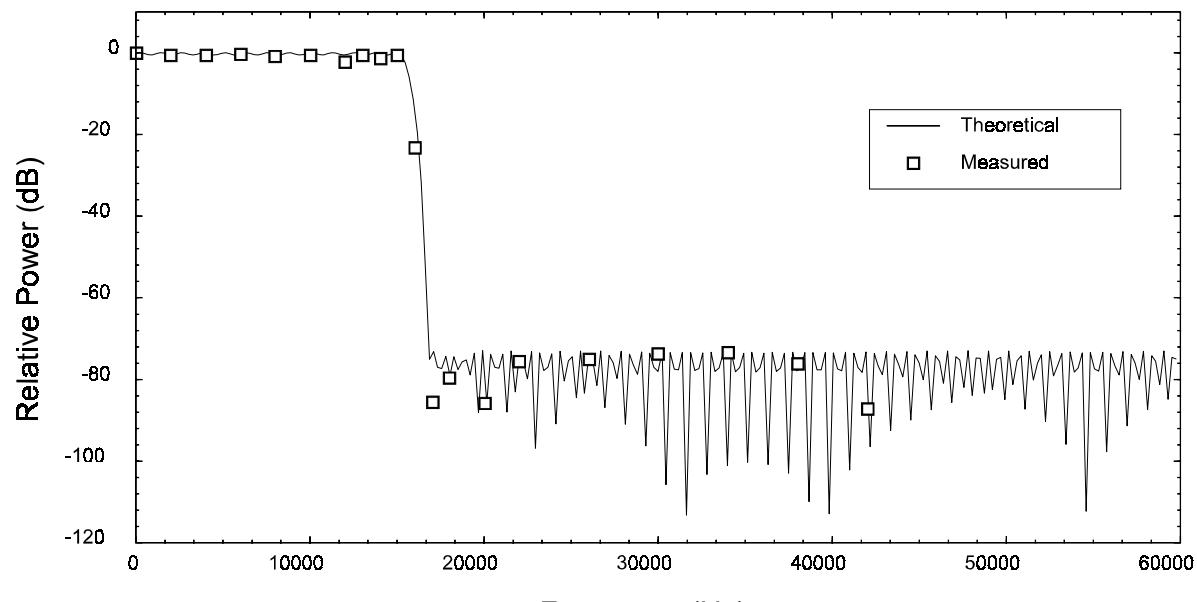
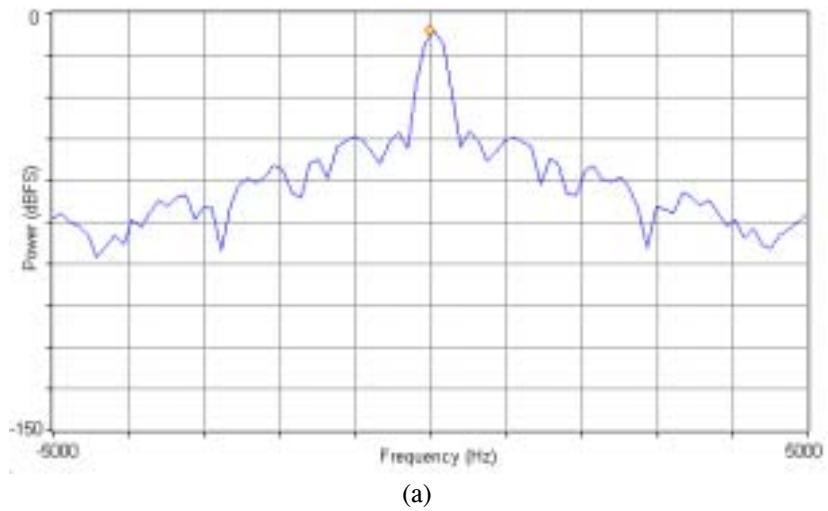
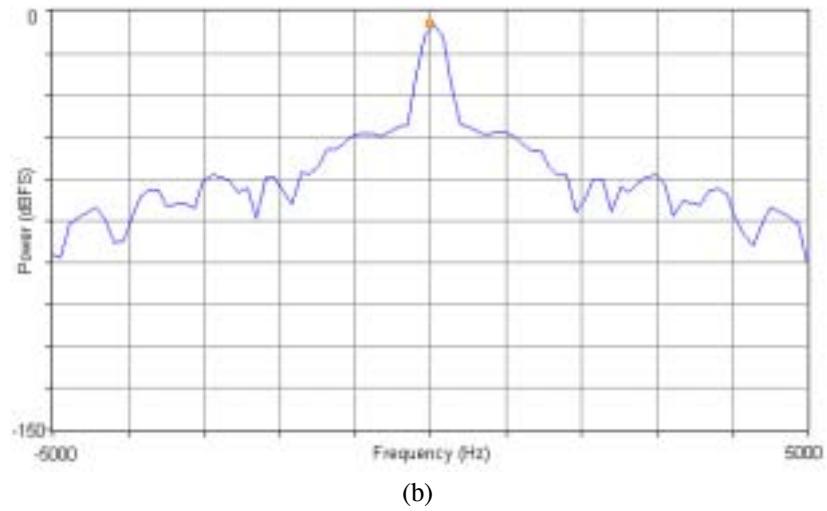


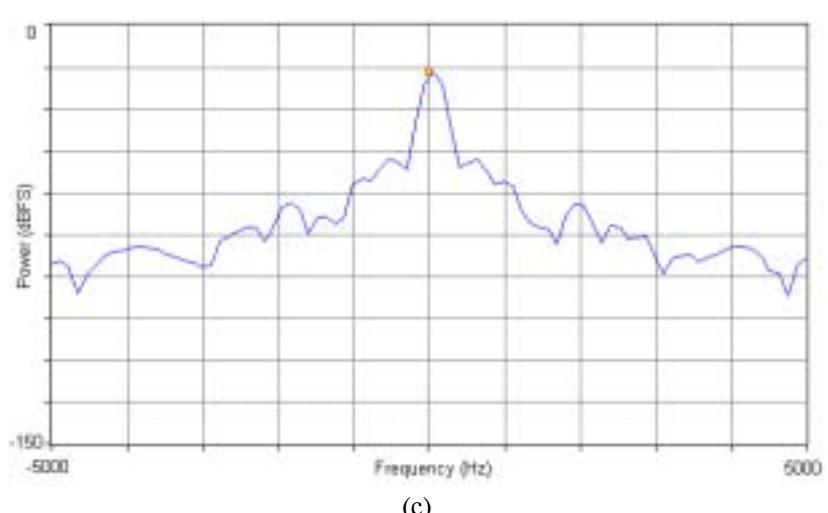
Figure 17. Measured and theoretical (a) passband and stopband and (b) transition band frequency response of the channel filter.



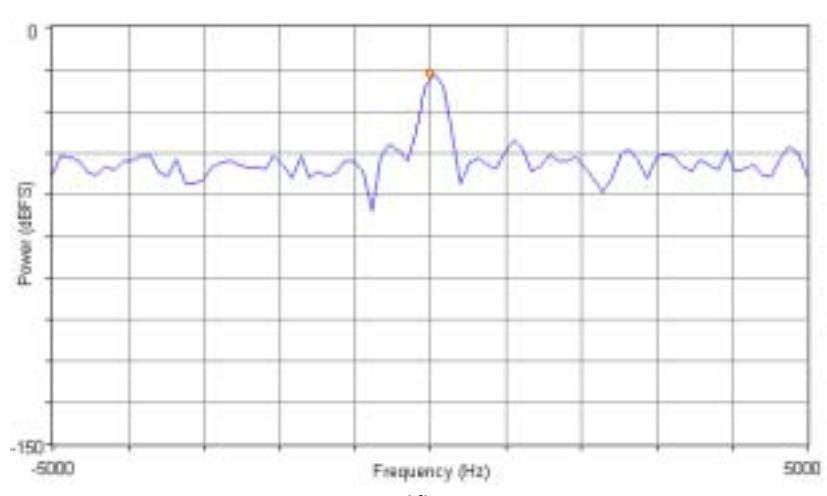
(a)



(b)

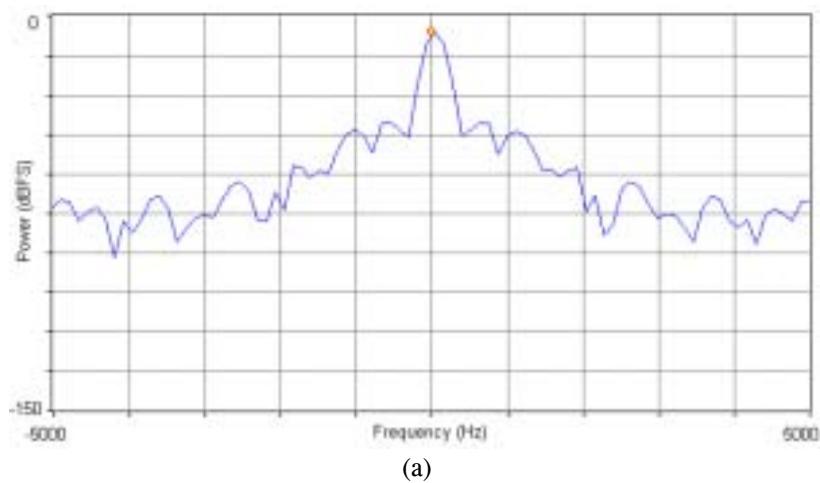


(c)

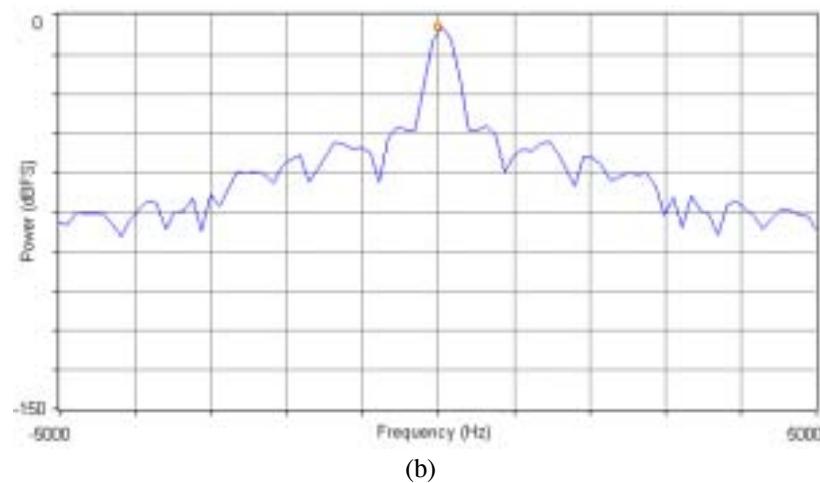


(d)

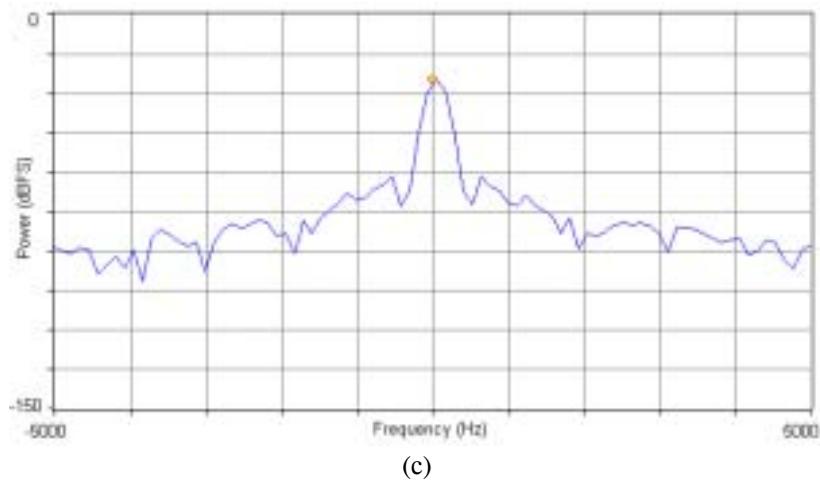
Figure 18. Output baseband spectrum with digital AGC enabled for 840-MHz RF input signal levels of (a) -15, (b) -40, (c) -60, and (d) -110 dBm.



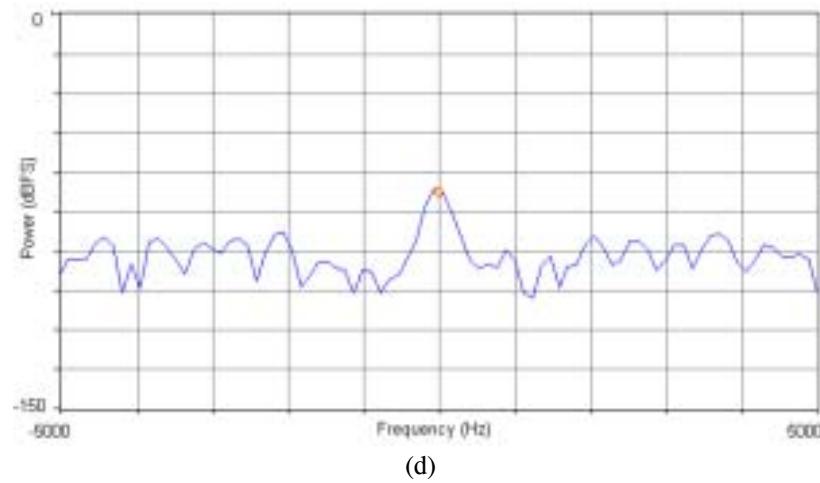
(a)



(b)



(c)



(d)

Figure 19. Output baseband spectrum with digital AGC disabled for 840-MHz RF input signal levels of (a) -15, (b) -40, (c) -60, and (d) -110 dBm.

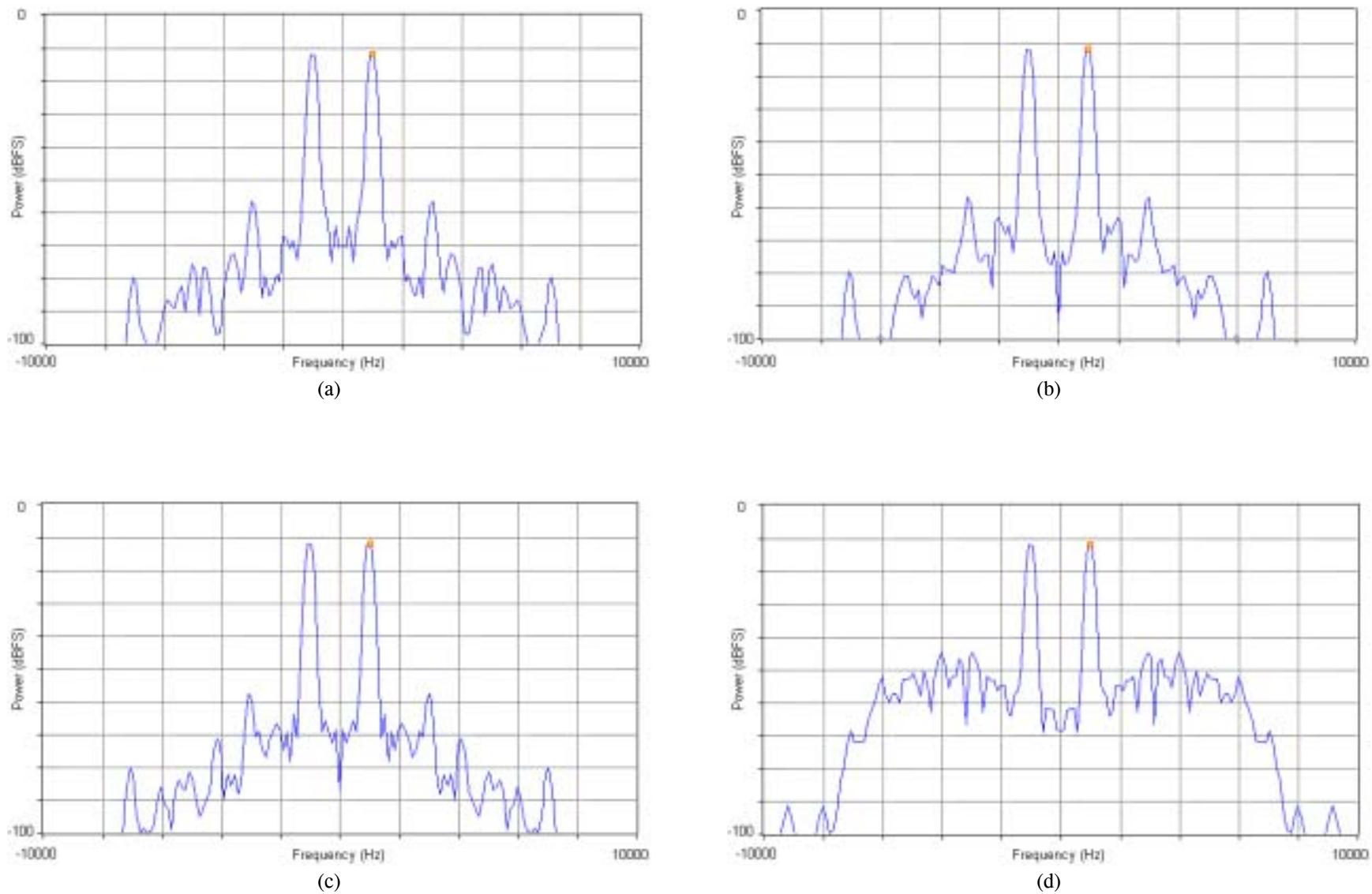


Figure 20. Demodulated output signal spectrum with digital AGC enabled for 840-MHz RF input signal levels of (a) -15, (b) -40, (c) -60, and (d) -110 dBm.